

Improving Accuracy in Eddy Viscosity Turbulence Models Through Filtering and Approximate Deconvolution

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Abstract

The talk will present a class of Eddy Viscosity turbulence models whose derivation is based on filtering and approximate deconvolution. The resulting EV models are mathematically well posed and physically sound, leading to improved accuracy. Recent models in this class also allow simple numerical schemes for finite element computations. These properties, as well as some numerical results and comparison with other EV models, will be discussed.